Notes on TABANI from the East Indies

BY

GERTRUDE RICARDO.

Among the Tabanidae sent to me for identification by Prof. de Meijere, from the Amsterdam Museum, were a small number of species of Tabanus from Java, Sumatra, Borneo and Celebes. Only one of them is a new species, but some are recorded for the first time from these localities.

They are placed in the groups formed by me for the Oriental Tabani, see Records of Indian Museum, IV, No. VI p. 111, (1911).

In Group II.

Tabanus flavicinctus Ricardo, a female from Semarang, Java.

In Group V.

Tabanus optatus Walker, a male from Batavia and Java.

In Group VII.

Tabanus brunnipennis Ricardo, two females from Batavia and Java.

Tabanus rubidus Wied., a female from Pasuruan, Kobus leg.

Tabanus albimedius Walker, a series males and females from Java and Batavia.

Tabanus striatus Fabr., a series males and females from Java, Batavia and Sumatra.

In Group VIII.

Tabanus brunneus Macquart, from Java and Sumatra.

Tabanus fumifer Walker, females from Borneo and Sumatra.

In Group X.

Tabanus fulvissimus Rondani, females from Borneo.

Tabanus univentris Walker, a female from Semarang, Java.

Tabanus simplicissimus Walker. females from Borneo and Batavia.

From Celebes there is a female of Walker's *Tabanus speculum*, and several females of the following Walker species from Java:

Tabanus humillimus, Walker, Trans. Entom. Soc. London, n. ser. IV, p. 124 (1857). Type (a female) and another in Brit. Mus. Coll. In Prof. de Meijere's Coll. are a series of females from Java which are identical with the type from Celebes.

A blackish brown small species, not unlike *Tabanus virgo*, Wiedemann, but distinguished from it by the presence of a distinct callus on the forehead which is narrower in this species and the markings on the abdomen are different. No other species from the Oriental Region has yet been described with one frontal callus, inprovided with any lineal extension. Legs and antennae yellow. Wings clear. Length $9-9\frac{1}{2}$ mm.

Face covered with ashy grey tomentum, the subcallus with yellowish brown tomentum, similar to the forehead; hairs on face white and thick. Beard white. Palpi very pale yellow or whitish with thick pubescence, short and black above, longer and white below, stout at base, ending in a fine point. Antennae light reddish yellow, short, the first two joints with few black hairs, the third joint broad on its first division, but the tooth very slight. Forehead about six times as long as it is broad and more than a third narrower anteriorly than at vertex, the frontal callus shining, reddish brown, almost square, far from the eyes on each side, with no lineal extension, forehead with some black pubescence. Thorax blackish brown, covered with short white appressed pubescence, a few black hairs intermixed and at sides. Scutellum the same. Abdomen blackish brown, with indistinct traces of reddish or paler lateral spots, dorsum with scattered white hairs similar to these on thorax and black pubescence; underside paler with white hairs. Legs yellowish, femora and

coxae with white pubescence, elsewhere black. Wings clear, veins brown.

Tabanus batavus n.sp. Types male and female from Java.

A species belonging to Group X, distinguished by the abdomen being yellowish at base, otherwise black. Antennae reddish. Legs black. Wings tinged brown. Length 15 mm.

♀. Face covered with reddish brown tomentum, the pubescence brownish. Beard blackish brown. Palpi yellowish brown with black pubescence, stout, ending in a point. Antennae slender, reddish, the first two joints with some black hairs, the third with a distinct tooth, long and slender. Forehead darker than face, narrow, about ten times as long as it is wide anteriorly, where it is hardly more than half as wide as at vertex, frontal callus narrow, shining yellowish brown, reaching the eyes. Thorax dark brown, shoulders yellowish. Scutellum yellowish. Abdomen with the first two segments yellowish, the others black, the first four segments with pale yellow hairs on posterior borders, pubescence on dorsum yellow on the first two segments, elsewhere black; underside almost wholly black with pale haired segmentations. Legs blackish, the tibiae more reddish, the fore tibiae pale, at base obscurely reddish yellow. Wings tinged brown, paler at base, veins reddish yellow.

The male is similar. Palpi reddish yellow with black hairs. The large facets of eyes reach beyond the apex of the frontal triangle, but do not reach the vertex, a narrow border of the small facets extending to the vertex.

Abdomen with the anterior border of third segment also yellowish. —

After comparison with Bigot's Type my *Tabanus designatus*, to be published in Nova Guinea vol. 9, p. 390, has shown to be identical to *Tabanus rufinotatus* Bigot (Mém. Soc. Zool. de France V, p. 675), from Australia.